

# 4

# Delaware DeSSA

## GRADE 4

# MATH

## PRACTICE TESTS



5 FULL-LENGTH  
PRACTICE TESTS



Standards-Aligned Review with  
Mixed Practice and Answer Key



STANDARDS-ALIGNED  
REVIEW



MIXED PRACTICE  
QUESTIONS



ANSWER KEY  
INCLUDED



$$4 \times 7 = 28$$

$$36 \div 9 = 4$$

$$\begin{array}{r} 125 \\ + 87 \\ \hline 212 \end{array}$$



# 4 Delaware DeSSA Grade 4 Math Practice Tests

*Standards-Aligned Review with Mixed Practice and Answer Key*



Four focused 30-question missions for Grade 4 math: number facts, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.

**Jay Daie and Reza Nazari**



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# Welcome, Delaware Math Explorer!

Four steady rounds on the First State math route

This book gives you four full Grade 4 practice tests for DeSSA. Each round uses bay breezes, first-state focus, and crisp checking habits to keep practice memorable while you read carefully, choose a strategy, show work, and check the answer.

## Delaware Practice Promise

I will slow down for the question, circle what matters, solve one step at a time, and use mistakes as clues for getting stronger.

Read

Plan

Check

## How to Use This Book

A ten-session routine for Delaware DeSSA review

1. **Preview the skills.** Read the quick review pages before the first test.
2. **Take one test at a time.** Treat each round like a stop on the First State math route.
3. **Mark your confidence.** Put a small star beside problems you solved with a strong plan.
4. **Check, then retry.** For missed questions, try the problem again before reading the explanation.
5. **Track your next move.** Use the growth log to name one habit and one skill for the next test.

**Good rhythm:** Test one day, correct carefully the next day, then return for the next round when your corrections feel clear.



## What Is Inside?

Four tests, 120 questions, and a full DeSSA review path

Part	What You Will Practice
Tests 1–3	Warm-up rounds for reading carefully, choosing operations, and using models.
Tests 2–4	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 2–4	Stamina rounds for mixed review, neat work, and flexible strategies.
Answer Pages	Compact keys and explanations that show why each answer works.

The tests are mixed on purpose. Real test readiness means recognizing the skill even when the next question changes topic.



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For more practice  
& answers

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- 1) What is  $100,000 - 67,234$ ?
- A. 32,766                       C. 32,666  
 B. 33,766                       D. 33,666
- 2) Maya measured her jump rope. It was 0.65 meters. Sam's rope was 0.56 meters. Whose rope was longer?
- A. Maya's rope (0.65 m)                       C. Both ropes are the same length  
 B. Sam's rope (0.56 m)                       D. Cannot tell from the information
- 3) A sack of apples weighs 32 pounds. How many ounces is this?
- A. 128                       C. 512  
 B. 256                       D. 1,024
- 4) All the factors of 24 are:
- A. 1, 2, 3, 4, 8, 12, 24                       C. 2, 3, 4, 6, 8, 12, 24  
 B. 1, 2, 4, 6, 8, 12, 24                       D. 1, 2, 3, 4, 6, 8, 12, 24
- 5) Which statement is true about a parallelogram?
- A. It has no parallel sides.                       C. It has only one pair of parallel sides.  
 B. It has two pairs of parallel sides.                       D. It has four right angles.
- 6) What is  $\frac{4}{10} + \frac{25}{100} + \frac{10}{100}$ ?



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7) Diego walked  $2\frac{3}{10}$  miles on Monday and  $1\frac{4}{10}$  miles on Tuesday. How many miles did he walk in total?

A.  $3\frac{5}{10}$  miles

B.  $3\frac{6}{10}$  miles

C.  $3\frac{7}{10}$  miles

D.  $4\frac{1}{10}$  miles

8) Which symbol makes this true?  $456,100 \square 456,099$

A.  $<$

B. Cannot compare

C.  $=$

D.  $>$

9) Which fractions are greater than  $\frac{1}{2}$ ?

A.  $\frac{4}{10}$  and  $\frac{3}{8}$

B.  $\frac{5}{8}$  and  $\frac{6}{10}$

C.  $\frac{2}{5}$  and  $\frac{3}{6}$

D.  $\frac{1}{3}$  and  $\frac{2}{4}$

10) 

?
28

A school has 28 basketballs. The number of basketballs is 4 times the number of soccer balls. How many soccer balls does the school have?

11) What is the remainder when 762 is divided by 9?

A. 2

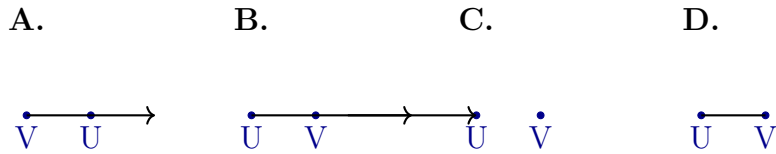
B. 4

C. 6

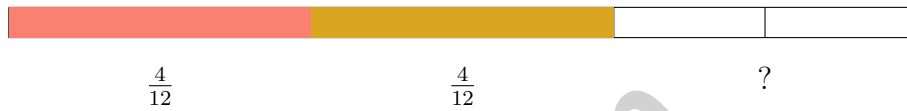
D. 8



12) Which diagram correctly shows Ray  $UV$ ?



- A. Diagram A                       C. Diagram C  
 B. Diagram B                       D. Diagram D



13)

A trail is divided into three equal sections. First hikers cover  $\frac{4}{12}$  (red) and next hikers cover  $\frac{4}{12}$  (gold). How much trail is left?

- A.  $\frac{8}{12}$                                    C.  $\frac{12}{12}$   
 B.  $\frac{4}{12}$                                    D.  $\frac{2}{12}$

14) An angle is split into two smaller angles. One measures  $30^\circ$  and the other measures  $45^\circ$ . What is the measure of the whole angle?

- A.  $15^\circ$                                    C.  $75^\circ$   
 B.  $65^\circ$                                    D.  $90^\circ$

15) Which multiplication sentence matches the fraction bar below?



- A.  $1 \times \frac{1}{4}$                                    C.  $3 \times \frac{1}{4}$   
 B.  $2 \times \frac{1}{4}$                                    D.  $4 \times \frac{1}{4}$

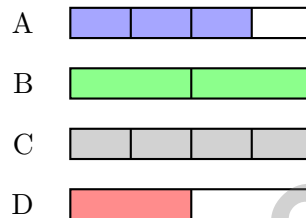


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1) An error analysis: A student added  $\frac{2}{4} + \frac{3}{4}$  and got  $\frac{5}{8}$ . What did the student do wrong?

- A. Added the denominators instead of keeping them the same.
- B. Subtracted instead of added.
- C. Forgot to simplify.
- D. Used the wrong denominator in the answer.

2) Which picture shows  $\frac{3}{4}$  as a sum of unit fractions?



- A. 3 of 4 parts
- B. 2 of 2 parts
- C. 4 of 4 parts
- D. 1 of 2 parts

3) A recipe for cookies uses  $\frac{2}{5}$  cup of chocolate chips. If you triple the recipe, how many cups of chocolate chips do you need?

4) A juice stand makes 8 pitchers. Each pitcher has 9 cups. They sell 36 cups. How many cups are left?

- A. 28
- B. 72
- C. 44
- D. 36



5) What is  $6,001 - 2,345$ ?

A. 3,656

C. 4,656

B. 3,756

D. 3,556

6) Which of the following best describes a line segment?

A. A line that goes on forever in both directions

C. A straight path that has a start but goes on forever in one direction

B. A straight path between two points with a definite start and end

D. A point that marks the middle of a line

7) What is  $4 \times \frac{3}{8}$  as a mixed number?

A.  $\frac{3}{32}$

C.  $\frac{12}{8}$  or  $1\frac{1}{2}$

B.  $\frac{4}{8}$

D.  $\frac{12}{32}$

8) A number line from 0 to 2 has tick marks every  $\frac{1}{6}$ . What fraction is at the 10th tick mark?



A.  $\frac{6}{6}$

C.  $\frac{10}{12}$

B.  $\frac{10}{6}$

D.  $\frac{5}{6}$

9) How is  $\frac{80}{100}$  written as a fraction with denominator 10?

A.  $\frac{80}{10}$

D. Cannot be written with denominator 10

B.  $\frac{8}{10}$

C.  $\frac{8}{100}$



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- 1) A store has 12 blue shirts in stock. This is 4 times as many as the number of red shirts. How many red shirts does the store have?

- 2) Which tool is used to measure the size of an angle in degrees?

- A. Protractor  C. Ruler  
 B. Compass  D. Calculator

- 3) If an angle measures  $35^\circ$ , how many one-degree angles does it turn through?

- A. 3.5 one-degree angles  C. 70 one-degree angles  
 B. 35 one-degree angles  D. 350 one-degree angles

- 4) What is  $5 \times \frac{1}{6}$ ?

- A.  $\frac{1}{30}$   C.  $\frac{5}{6}$   
 B.  $\frac{6}{5}$   D.  $\frac{5}{30}$

- 5) A letter has no line of symmetry. How many lines of symmetry does it have?



6) A bathtub contains 120 fluid ounces of water. How many cups is this?

A. 15

C. 60

B. 30

D. 240

7) Ava had  $\frac{7}{8}$  of a chocolate bar. She gave  $\frac{2}{8}$  to her friend. How much does she have left?

A.  $\frac{5}{8}$

C.  $\frac{5}{16}$

B.  $\frac{9}{8}$

D.  $\frac{1}{8}$

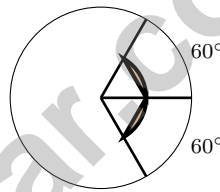
8) What is  $5 \times 234$ ?

A. 1170

C. 1070

B. 965

D. 855



9)

Two equal  $60^\circ$  angles are shown. How many more such angles are needed to complete the full circle?

A. 2

C. 6

B. 4

D. 8

10) Aisha has 5 pet fish. Kai has 4 times as many fish as Aisha. How many fish does Kai have?

A. 9

C. 25

B. 15

D. 20



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## Practice Test Answer Keys

**How to use this section with a Grade 4 student:**

1. check the answer first
2. mark questions to try again
3. rework the problem before reading the full explanation

**A calm correction routine turns every missed item into useful practice.**

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## Practice Test Answers and Explanations

### Practice Test 1 Answers and Explanations

- Choice A is correct.** (4.NBT.B.4) Subtract from 100,000 using regrouping across multiple zeros. The answer is **32,766**.
- Choice A is correct.** (4.NF.C.5) Look at the tenths place: 0.65 has 6 tenths while 0.56 has 5 tenths. Since  $6 > 5$ ,  $0.65 > 0.56$ , and Maya's rope is longer.
- Choice C is correct.** (4.MD.A.1) Since 1 pound = 16 ounces, multiply:  $32 \times 16 = 512$  ounces. The answer is **512** ounces.
- Choice D is correct.** (4.OA.B.4) Walk through the factor pairs:  $1 \times 24$ ,  $2 \times 12$ ,  $3 \times 8$ ,  $4 \times 6$ . Combine both sides of each pair: **1, 2, 3, 4, 6, 8, 12, 24**. *Tip:* the pairs "meet in the middle"—once they start repeating, you've found them all.
- Choice B is correct.** (4.G.A.2) A parallelogram has two pairs of opposite sides that are parallel to each other. This is the defining characteristic that distinguishes a parallelogram from trapezoids and other quadrilaterals. The answer is **B**.
- The correct answer is  $\frac{75}{100}$ .** (4.NF.C.5) Convert the first fraction:  $\frac{4}{10} = \frac{40}{100}$ . Now add all three:  $\frac{40}{100} + \frac{25}{100} + \frac{10}{100} = \frac{75}{100}$ .
- Choice C is correct.** (4.NF.B.3) Add the wholes:  $2 + 1 = 3$ . Add the fractions:  $\frac{3}{10} + \frac{4}{10} = \frac{7}{10}$ . The total is  **$3\frac{7}{10}$**  miles.
- Choice D is correct.** (4.NBT.A.2) Comparing left to right: hundred-thousands, ten-thousands, and thousands are the same. Hundreds:  $1 > 0$ , so  $456,100 > 456,099$  ✓
- Choice B is correct.** (4.NF.A.1) Check each:  $\frac{4}{10} < \frac{1}{2}$  (4 tenths),  $\frac{3}{8} < \frac{1}{2}$  (3 eighths),  $\frac{5}{8} > \frac{1}{2}$  (5 eighths),  $\frac{6}{10} > \frac{1}{2}$  (6 tenths). Both B choices are greater.
- The correct answer is 7.** (4.OA.A.2) The school's 28 basketballs are 4 times the soccer balls. To find the smaller amount, divide:  $28 \div 4 = 7$  soccer balls.
- Choice C is correct.** (4.NBT.B.6) Divide:  $7 \div 9 = 0$  r7, bring down the 6 to get  $76 \div 9 = 8$  r4, bring down the 2 to get  $42 \div 9 = 4$  r6. The remainder is **6**.
- Choice B is correct.** (4.G.A.1) The first letter of a ray name is always the starting point. Ray  $UV$  begins at  $U$  and shoots through  $V$  forever. Diagram B shows this with the arrow starting at  $U$ .
- Choice B is correct.** (4.NF.B.3) A hiking trail is shown with sections covered. Step 1: Add the distances the hikers covered:  $\frac{4}{12} + \frac{4}{12} = \frac{8}{12}$ . Step 2: Find what's left:  $\frac{12}{12} - \frac{8}{12} = \frac{4}{12}$ .
- Choice C is correct.** (4.MD.C.7) When you split an angle into smaller parts, add them to find the whole:  $30^\circ + 45^\circ = 75^\circ$ .
- Choice C is correct.** (4.NF.B.4) Count the shaded (green) parts: there are 3 shaded parts. Count the equal parts: there are 4 total parts. So this is  $3 \times \frac{1}{4} = \frac{3}{4}$ .
- Choice B is correct.** (4.NF.C.5) When you see 0.23, you're looking at twenty-three hundredths:  $0.23 = \frac{23}{100}$ .
- Choice B is correct.** (4.NF.B.4) When adding fourths, the denominator stays the same!  $\frac{1}{4} + \frac{1}{4} = \frac{2}{4}$ , not  $\frac{2}{8}$ . The student mistakenly added the denominators.
- The correct answer is A, C.** (4.NF.B.3) Let's check each choice. Choice A:  $\frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} = \frac{4}{6}$  (correct!). Choice C: "Four unit fractions" also describes this sum (correct!). Choices B, D, E: Wrong denominators or wrong totals.
- Choice C is correct.** (4.G.A.3) The letter  $N$  has a diagonal bar that slants one way only—from bottom-left to top-right. This tilt means no fold line can create matching halves. The answer is It has no line of symmetry.
- Choice B is correct.** (4.MD.B.4) On the line plot, count the X marks stacked above  $\frac{2}{4}$  inch. There are exactly **2** X marks at that position.
- Choice A is correct.** (4.NBT.A.3) In option A (79,999), the thousands digit is  $9 \geq 5$ , so round the ten thousands digit UP from 7 to 8, giving **80,000** ✓.
- The correct answer is 8.** (4.OA.A.3) Equal teams is a division signal. Step 1: set up:  $48 \div 6$ . Step 2: solve:  $48 \div 6 = 8$  students on each team. *Quick check:*  $6 \times 8 = 48$ . ✓
- Choice B is correct.** (4.MD.C.6) The ray falls between the  $60^\circ$  benchmark and the  $90^\circ$  benchmark. It's closer to the midpoint between them, which is around  $75^\circ$ . The answer is **75** degrees.
- Choice C is correct.** (4.NBT.A.1) Read the value backwards:  $600 = 6 \times 100$ . A digit's value equals digit  $\times$  place value. Since the place value here is 100, the digit must be in the hundreds place. *Quick check:* the places are ones ( $\times 1$ ), tens ( $\times 10$ ), hundreds ( $\times 100$ ), thousands ( $\times 1,000$ ). ✓



Notes From the Math Gardener

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## Hi, Math Gardener!

◇ Look at how much you grew! 4 tests is like 4 weeks of taking care of your math garden. Every problem was a seed. Every try was water. ◇

★ **Gardeners say:** growth takes time. You can't see roots, but they are there. You can't always feel smarter, but you are. Your math garden is full! ★

### Garden Check-Up

- **Roots:** STRONG! Your basic math is solid.
- **Stems:** STURDY! You can do step-by-step problems.
- **Leaves:** GREEN! You have lots of math tools.
- **Flowers:** BRIGHT! You feel proud of your work.

**Gardener tip:** keep watering your math garden long after the test. Every habit you built will grow with you for years!

If you want to share something or ask a question, please email me at [jay@testinar.com](mailto:jay@testinar.com).

**Jay Daie**

Your Math Gardener

# PRACTICE TODAY, SUCCEED TOMORROW!

This **Grade 4 Math Practice Tests** book is the perfect tool to help students build strong math skills, master key concepts, and gain the confidence they need to excel.

With 4 full-length practice tests, a variety of question types, and detailed answer explanations, students get the review and practice they need to strengthen problem-solving skills and achieve their best.

Perfect for classroom use, homework, test preparation, and extra practice at home.

## PERFECT FOR:

- ✓ Classroom Practice
- ✓ Homework & Review
- ✓ Independent Learning
- ✓ Test Preparation
- ✓ Skill Reinforcement
- ✓ Confidence Building

★ **CONFIDENCE TODAY.  
SUCCESS TOMORROW!**

## WHAT STUDENTS WILL GAIN



### Stronger Math Skills

Build a solid foundation through targeted practice and review.



### Better Problem Solving

Develop logical thinking and effective solution strategies.



### Test Confidence

Become familiar with test-style questions and formats.



### Track Progress

Measure growth across multiple practice tests.



### Prepare for Success

Build the confidence needed to do your best on test day.

## TOPICS COVERED

- ✓ Place Value & Number Sense
- ✓ Addition & Subtraction
- ✓ Multiplication & Division
- ✓ Fractions & Decimals
- ✓ Geometry & Measurement
- ✓ Data, Graphs & Line Plots
- ✓ Perimeter & Area
- ✓ Patterns & Algebraic Thinking
- ✓ Word Problems
- ✓ And More!



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4 FULL-LENGTH  
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QUESTIONS